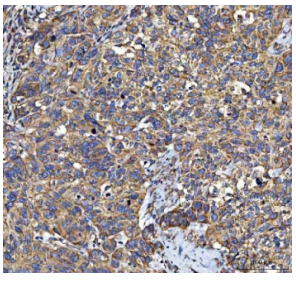
LIN7C Antibody / Protein lin-7 homolog C (RQ8624)

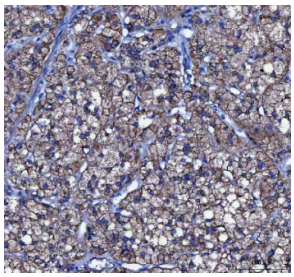
Catalog No.	Formulation	Size
RQ8624	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

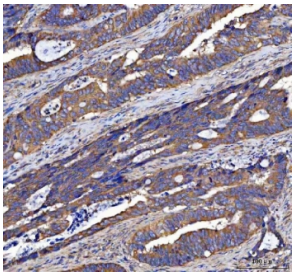
Availability	1-3 days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NUP9
Localization	Cell membrane
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This LIN7C antibody is available for research use only.



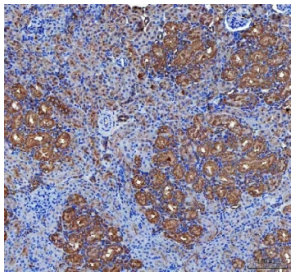
IHC staining of FFPE human bladder urothelial carcinoma tissue with LIN7C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



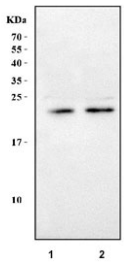
IHC staining of FFPE human adrenal adenoma tissue with LIN7C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



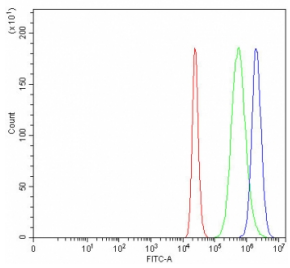
IHC staining of FFPE human colorectal adenocarcinoma tissue with LIN7C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat kidney tissue with LIN7C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human RT4 and 2) rat brain tissue lysate with LIN7C antibody. Predicted molecular weight ~22 kDa.



Flow cytometry testing of fixed and permeabilized human ThP-1 cells with LIN7C antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= LIN7C antibody.

Description

Lin-7 homolog C is a protein that in humans is encoded by the LIN7C gene. LIN7C plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. It forms membrane-associated multiprotein complexes that may regulate delivery and recycling of proteins to the correct membrane domains. The tripartite complex composed of LIN7 (LIN7A, LIN7B or LIN7C), CASK and APBA1 may have the potential to couple synaptic vesicle exocytosis to cell adhesion in brain. LIN7C ensures the proper localization of GRIN2B (subunit 2B of the NMDA receptor) to neuronal postsynaptic density and may function in localizing synaptic vesicles at synapses where it is recruited by beta-catenin and cadherin. It is also required to localize Kir2 channels, GABA transporter (SLC6A12) and EGFR/ERBB1, ERBB2, ERBB3 and ERBB4 to the basolateral membrane of epithelial cells.

Application Notes

Optimal dilution of the LIN7C antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids M1-A73) was used as the immunogen for the LIN7C antibody.

Storage

After reconstitution, the LIN7C antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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